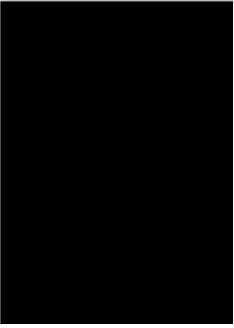


# Portland Harbor Overview of JSCS

- Developed jointly by DEQ & EPA with TCT review
- Establishes regulatory & technical framework for controlling on-going upland sources of contamination threatening the river



# Portland Harbor Project- Overview of JSCS

## **Goal of Upland Source Control:**

Identify & eliminate or control upland sources of contamination threatening the river & river sediments

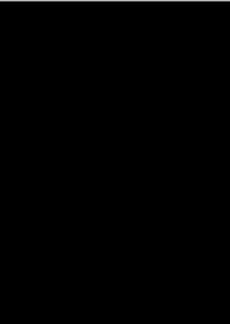


# Portland Harbor Overview of JSCS

## **JSCS Objectives (slide 1 of 2):**

- 1) Provide framework to identify & characterize upland sources early
- 2) Provide conservative screening levels used to determine relative threat upland sources pose to the river
- 3) Coordinate source control with in-water RI/FS

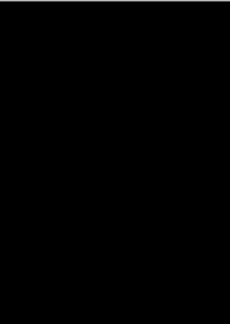
(continued)



# Portland Harbor Overview of JSCS

## **JSCS Objectives (slide 2 of 2):**

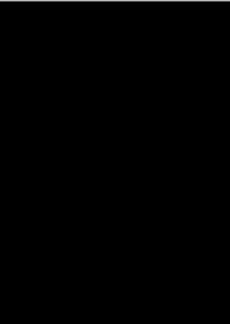
- 4) Develop scheme to prioritize upland sources by the magnitude of the threat or degree of impact to the river
- 5) Develop a time schedule for evaluation & control of upland sources
- 6) Develop a milestone reporting system to measure source control status/success



# Portland Harbor Overview of JSCS

## **General Source Control Process:**

- 1) Upland RP conducts Source Control Evaluation (SCE) to determine if the site has a current source contamination threatening the river.**
- 2) DEQ makes Source Control Decision (SCD) based on SCE.**
- 3) EPA/partners can review & comment on DEQ's SCD.**
- 4) Upland RP conducts necessarily Source Control Actions to eliminate or control significant sources of contamination.**



# Portland Harbor Overview of JSCS

## **Specific Steps in Source Control Process (slide 1 of 3):**

- 1) Characterize site.**
- 2) Identify potentially complete contaminant transport pathways from upland sources to the river.**
- 3) Use conservative, generic toxicity & bioaccumulation screening levels to screen upland sources threatening the river.**

(continued)



# Portland Harbor Overview of JSCS

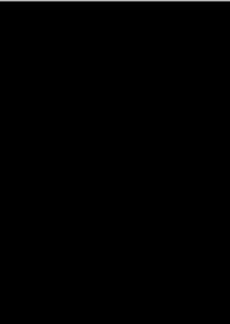
## **Specific Steps (slide 2 of 3):**

**4) Prioritize sources based on screening:  
Low Priority- (below screening levels)**

**Medium Priority- (exceeding screening  
levels)**

**High Priority- (strongly exceeding  
screening levels)**

(continued)



# Portland Harbor Overview of JSCS

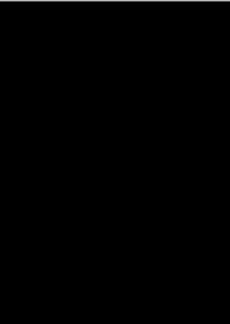
## **Specific Steps (slide 3 of 3):**

**5) Take appropriate actions based on priority:**

**Low Priority- No Source Control Action  
needed.**

**Medium Priority – Use weight-of-evidence  
approach to determine next step.**

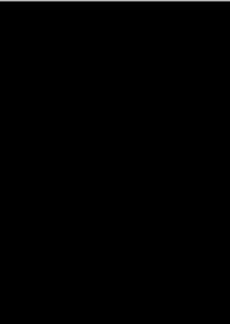
**High Priority- Move aggressively into Source  
Control Action.**



# Portland Harbor Overview of JSCS

## **Weight-of-Evidence Approach for Medium Priority Sites:**

- Magnitude of screening level exceedances
- Number of screening level exceedances
- Are chemicals bioaccumulative
- Potential contaminant flux to the river
- Groundwater to sediment loading
- Status of in-river Portland Harbor project work
- Status of upland investigation
- Are the exceedances above regional or site-specific background



# Portland Harbor Overview of JSCS

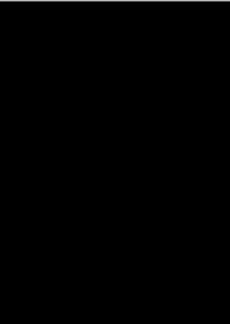
## **Possible Outcomes for Medium Priority Sites:**

- 1) Further Source Control Evaluation**
- 2) Wait for Portland Harbor in-water risk-based cleanup goals to be established to determine if upland source control is needed**
- 3) Source Control Action**

# Portland Harbor

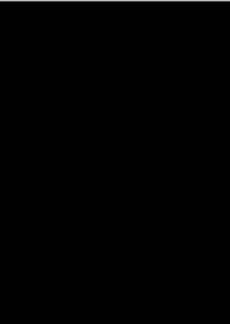
## JSCS Screening Level Values

	Human Receptors		Eco Receptors	
	Toxicity	Bioaccumulation	Toxicity	Bioaccumulation
<b>Soil &amp; Storm Water Solids</b>	No SLVs	No SLVs	MacDonald Sediment PECs (& other PECs)	DEQ's 2001 Sediment Bioaccumulation SLVs
<b>Groundwater &amp; Storm Water- Whole Water</b>	MCLs (& tap water PRGs)	Organism only AWQC (divided by 10)	Chronic AWQC	No SLVs



## Portland Harbor Status of JSCS

- **30-day Review Period Ended 10/10/05.**
- **JSCS Finalized & Signed in December 2005.**
- **DEQ Project Managers are Implementing JSCS Implementation.**



## Portland Harbor JSCS- Challenges

- Ensuring consistency in SCDs
- Determining whether a source of contamination is a **SIGNIFICANT threat to the river**
- Stormwater
- Maintaining Schedule



## Portland Harbor Upland Cleanup Sites



Oregon  
Department of  
Environmental  
Quality



# Portland Harbor Cleanup Progress: Upland Work

## Summary of Upland Cleanup Status

- >50 active investigations (RIs & XPAAs)
- >25 sites with active RI/FS's
- 13 Source Control Decisions (not a source, source control completed,&/or NFA)
- 12 active Source Control Actions

